Application story

WANNER™
HYDRA-CELL® PRO
SEAL-LESS PUMP TECHNOLOGIES

Boiler Burner Feed in Ukraine

Location	Ukraine	**Hydra-Cell model**	G13XKSGHFEHA
Type of application	Boiler Burner Feed in Ukraine	**Flow rate**	6 l/min (1.6 gpm)
Liquid	Coal Tar Oil Benzine - Crude Benzene - Polymers	**Pressure**	20 bar (290 psi)

Application details

The customer is a utility waste company. There is a big increase in the cost of energy supplied by the local government, so many manufacturers will prefer to use an independent power source. The waste company has a power generation system in which various low cost fuels are fed to burner nozzles to heat a boiler. They include polymers of benzine (35%), napthalene coal-tar oil (20%), anthracene light col-tar oil (19%) and crude benzine.
Previously gear pumps had been used for this task, but the aggressive and corrosive nature of the fuels being pumped caused rapid wear in the pump internals. So the customer was searching for a specific solution for this application. AODD pumps were already in use elsewhere in the process, so the company looked for another diaphragm pump - but one capable of an outlet pressure of around 20 bar. The Hydra-Cell G13 was then proposed. The customer liked the Hydra-Cell's unique design, and requested a soak test with a Viton diaphragm to check for chemical compatibility in the process liquid. After a one month test the customer placed an order for the pump.
The company is now planning to order a Hydra-Cell G10 pump for use in a similar process.

Advantages of Hydra-Cell pump on this application

Over gear pumps: diaphragms isolate drive end from liquid end of pump. Wetted parts in choice of chemically resistant materials. Over AODs: high pressure, low-pulse flow.

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